

```

RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSSSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSSSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSSSS
RRR      RRR      MMMMMM      MMMMMM      SSS
RRR      RRR      MMMMMM      MMMMMM      SSS
RRR      RRR      MMMMMM      MMMMMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      SSSSSSSSSSSSS
RRR      RRR      MMM      MMM      SSSSSSSSSSSSS
RRR      RRR      MMM      MMM      SSSSSSSSSSSSS

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LL                      IIIIII                      SSSSSSSS
LL                      IIIIII                      SSSSSSSS
LL                      II                      SS
LL                      II                      SS
LL                      II                      SS
LL                      II                      SS
LL                      II                      SSSSSS
LL                      II                      SSSSSS
LL                      II                      SS
LL                      II                      SS
LL                      II                      SS
LL                      II                      SS
LLLLLLLLLLLL           IIIIII                      SSSSSSSS
LLLLLLLLLLLL           IIIIII                      SSSSSSSS

```


(2) 49
(3) 75
(5) 165
(7) 250
(8) 299
(9) 353

DECLARATIONS
NT\$BUILD_HEAD - BUILD DAP MESSAGE HEADER
NT\$BUILD_TAIL - COMPLETE DAP MESSAGE HEADER
NT\$CVT_BN4_EXT - CONVERT BINARY TO EXTENSIBLE
NT\$CVT_BN8_EXT - CONVERT BINARY TO EXTENSIBLE
NT\$CVT_BN4_IMG - CONVERT BINARY TO IMAGE

```
0000 1          $BEGIN NTOENCODE,000,NH$NETWORK,<DAP MESSAGE ENCODE ROUTINES>
0000 2
0000 3
0000 4
0000 5 :*****
0000 6 :*
0000 7 :*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 8 :*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 9 :*  ALL RIGHTS RESERVED.
0000 10 :*
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0000 20 :*  CORPORATION.
0000 21 :*
0000 22 :*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 23 :*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28
0000 29 :++
0000 30 : Facility: RMS
0000 31 :
0000 32 : Abstract:
0000 33 :
0000 34 :     This module contains support routines that encode (build) portions of
0000 35 :     A DAP message. Included are routines to build a message header and to
0000 36 :     convert binary data to extensible or image format.
0000 37 :
0000 38 : Environment: VAX/VMS, executive mode
0000 39 :
0000 40 : Author: James A. Krycka,      Creation Date: 16-JUN-1977
0000 41 :
0000 42 : Modified By:
0000 43 :
0000 44 :     v03-001 JAK0145      J A Krycka      12-APR-1984
0000 45 :     Track changes in DAP message building algorithm.
0000 46 :
0000 47 :--
```



```

0000 49      .SBTTL  DECLARATIONS
0000 50
0000 51 :
0000 52 : Include Files:
0000 53 :
0000 54
0000 55      $DAPHDRDEF      ; Define DAP message header
0000 56      $DAPCNFDEF     ; Define DAP Configuration message
0000 57      $NWADEF        ; Define Network Work Area symbols
0000 58
0000 59 :
0000 60 : Macros:
0000 61 :
0000 62 :      None
0000 63 :
0000 64 : Equated Symbols:
0000 65 :
0000 66
0000 67      ASSUME  NWA$Q_FLG EQ 0
0000 68
0000 69 :
0000 70 : Own Storage:
0000 71 :
0000 72 :      None
0000 73 :

```

```
0000 75 .SBTTL NT$BUILD_HEAD - BUILD DAP MESSAGE HEADER
0000 76
0000 77 :++
0000 78 : NT$BUILD HEAD - obtains a buffer and constructs a DAP message header in it.
0000 79 : NT$BUILD_TAIL is a companion routine that is called after the message
0000 80 : body has been formed to update the length value in the header. Both
0000 81 : 1-byte and 2-byte length fields are supported for DAP message blocking.
0000 82 :
0000 83 : Note that the algorithm for building the header does not support the
0000 84 : use of optional fields such as STREAMID or SYSPEC.
0000 85 :
0000 86 : Calling Sequence:
0000 87 :
0000 88 :     BSBW    NT$BUILD_HEAD
0000 89 :
0000 90 : Input Parameters:
0000 91 :
0000 92 :     R0      DAP message type value
0000 93 :     R7      Address of NWA (=DAP)
0000 94 :
0000 95 : Implicit Inputs:
0000 96 :
0000 97 :     DAP$V_BIGBLK
0000 98 :     DAP$V_MSGBLK
0000 99 :     NWA$Q_XMT
0000 100 :     NWA$V_LAST_MSG
0000 101 :
0000 102 : Output Parameters:
0000 103 :
0000 104 :     R5      Address of next byte available for message body
0000 105 :
0000 106 : Implicit Outputs:
0000 107 :
0000 108 :     NWA$Q_BLD
0000 109 :     DAP message header is placed in the message buffer.
0000 110 :
0000 111 : Completion Codes:
0000 112 :
0000 113 :     None
0000 114 :
0000 115 : Side Effects:
0000 116 :
0000 117 :     None
0000 118 :
0000 119 :--
```



```
0000 121 :++
0000 122 : On exit from NT$BUILD_HEAD the incomplete message header will be either
0000 123 : 2, 3, or 4 bytes long in one of the following three formats:
0000 124 :
0000 125 :         TYPE=msg#           TYPE=msg#           TYPE=8
0000 126 :         FLAGS=0            FLAGS=2            FLAGS=6
0000 127 :                               LENGTH=0          LENGTH=0
0000 128 :                               LEN256=0
0000 129 :
0000 130 : Note: The four byte format containing the extended length field is used only
0000 131 : for a DAP Data message.
0000 132 :--
0000 133 :
0000 134 :         ASSUME DAP$V_STREAMID+1 EQ DAP$V_LENGTH
0000 135 :         ASSUME DAP$V_LENGTH+1 EQ DAP$V_LEN256
0000 136 :
0000 137 NT$BUILD_HEAD::
55 00E8 C7 C1 0000 138 ADDL3 NWA$Q_XMT(R7),- ; Entry point
00F4 00EC C7 0004 139 NWA$Q_XMT+4(R7),R5 ; Compute address of first unused byte
85 50 90 0008 140 MOVL R5,NWA$Q_BLD+4(R7) ; in transmit buffer and return in R5
18 67 00 E0 000D 141 MOVVB R0,(R5)+ ; Update build message descriptor
0010 142 BBS #NWA$V_LAST_MSG,(R7),20$ ; Store DAP message type value
0014 143 ; Branch if this will be last message
0014 144 ; to block, thus requiring no length
0014 145 ; field in header
08 50 91 0014 146 CMPB R0,#DAP$K_DAT_MSG ; Branch if this is not a Data message
0B 12 0017 146 BNEQ 10$ ; (because only a Data message is
0019 147 ; potentially longer than 255 bytes)
06 28 A7 E1 0019 148 BBC #DAP$V_BIGBLK,- ; Branch if 2-byte length field is
85 06 90 001B 149 DAP$Q_SYSCAP(R7),10$ ; not supported by partner
001E 150 MOVVB #<<DAP$M_LENGTH>!-- ; Store FLAGS field indicating that
0021 151 <DAP$M_LEN256>!-- ; an extended length field will be
0021 152 0>,(R5)+ ; included
85 B4 0021 153 CLRW (R5)+ ; Reserve space for 2-byte length value
0023 154 ; (to be filled in by NT$BUILD_TAIL)
0023 155 ; Exit
03 28 A7 E1 0024 156 10$: BBC #DAP$V_MSGBLK,- ; Branch if 1-byte length field is
85 02 90 0026 157 DAP$Q_SYSCAP(R7),20$ ; not supported by partner
85 94 0029 158 MOVVB #DAP$M_LENGTH,(R5)+ ; Store FLAGS field
002C 159 20$: CLRB (R5)+ ; Reserve space for 1-byte length value
002E 160 ; (to be filled in by NT$BUILD_TAIL)
002E 161 ; OR overwrite FLAGS field with zero
002E 162 ; if message blocking is not being used
05 002E 163 RSB ; Exit
```



```

002F 165      .SBTTL NT$BUILD_TAIL - COMPLETE DAP MESSAGE HEADER
002F 166
002F 167 :++
002F 168 : NT$BUILD_TAIL - completes construction of the DAP message header that
002F 169 : NT$BUILD_HEAD initiated by updating the length value in the header.
002F 170 : Both 1-byte and 2-byte length fields are supported for DAP message
002F 171 : blocking.
002F 172 :
002F 173 : Note that the algorithm for building the header does not support the
002F 174 : use of optional fields such as STREAMID or SYSPEC.
002F 175 :
002F 176 : Note also that the LENGTH field will be converted to a STREAMID field
002F 177 : with a value of zero if a 1-byte length field was allocated by
002F 178 : NT$BUILD_HEAD, but the message body turned out to be more than 255
002F 179 : bytes long which cannot be represented in a single byte field.
002F 180 :
002F 181 : Calling Sequence:
002F 182 :
002F 183 :     BSBW    NT$BUILD_TAIL
002F 184 :
002F 185 : Input Parameters:
002F 186 :
002F 187 :     R5      Address of last byte of message + 1
002F 188 :     R7      Address of NWA (=DAP)
002F 189 :
002F 190 : Implicit Inputs:
002F 191 :
002F 192 :     NWA$Q_BLD
002F 193 :     DAP message header
002F 194 :
002F 195 : Output Parameters:
002F 196 :
002F 197 :     R0-R1   Destroyed
002F 198 :
002F 199 : Implicit Outputs:
002F 200 :
002F 201 :     NWA$Q_BLD
002F 202 :     LENGTH and LEN256 fields (if present) in the header are updated.
002F 203 :
002F 204 : Completion Codes:
002F 205 :
002F 206 :     None
002F 207 :
002F 208 : Side Effects:
002F 209 :
002F 210 :     LENGTH field may be converted to a STREAMID field with a value of zero.
002F 211 :
002F 212 :--

```



```
002F 214 :++
002F 215 : On exit from NT$BUILD_TAIL the completed message header will be either
002F 216 : 2, 3, or 4 bytes long in one of the following four formats:
002F 217 :
002F 218 :         TYPE=msg#         TYPE=msg#         TYPE=8         TYPE=8
002F 219 :         FLAGS=0          FLAGS=2          FLAGS=6          FLAGS=1
002F 220 :                                LENGTH=size    LENGTH=size0    STREAMID=0
002F 221 :                                LENGTH=size1
002F 222 :
002F 223 : Note: The four byte format containing the extended length field is used only
002F 224 :       for a DAP Data message.
002F 225 :--
002F 226 :
002F 227 :         ASSUME DAP$V_STREAMID+1 EQ DAP$V_LENGTH
002F 228 :         ASSUME DAP$V_LENGTH+1 EQ DAP$V_LEN256
002F 229 :
002F 230 NT$BUILD_TAIL::
002F 231 : Entry point
002F 231 : Compute size of DAP message and
002F 231 : update build descriptor
002F 231 : Put message descriptor in <R0,R1>
002F 231 : Branch if 2-byte length field was
002F 231 : not allocated in message header
002F 231 : Compute size of message body and
002F 231 : store value in <LEN256,LENGTH> field
002F 231 : Exit
002F 231 : Branch if 1-byte length field was
002F 231 : not allocated in message header
002F 231 : Compute size of message body
002F 231 : Branch if length of message body
002F 231 : will not fit in LENGTH field
002F 231 : Update LENGTH field
002F 231 : Exit
002F 231 : Rewrite FLAGS field (converting
002F 231 : LENGTH field into STREAMID field)
002F 231 : Exit

00F0 C7 55 00F4 C7 C3 002F 231 SUBL3 NWA$Q_BLD+4(R7),R5,-
002F 232 NWA$Q_BLD(R7)
002F 233 MOVQ NWA$Q_BLD(R7),R0
002F 234 BBC #<DAP$V_LEN256+8>,-
002F 235 (R1),10$
002F 236 SUBW3 #4,R0,2(R1)
002F 237
002F 238 RSB
002F 239 10$: BBC #<DAP$V_LENGTH+8>,-
002F 240 (R1),30$
002F 241 SUBW2 #3,R0
002F 242 CMPW R0,#255
002F 243 BGTRU 20$
002F 244 MOVB R0,2(R1)
002F 245 RSB
002F 246 20$: MOVB #DAP$M_STREAMID,1(R1)
002F 247
002F 248 30$: RSB
```


		85	51	90
51	51	7F	8F	8A
		F9	8F	9C
			07	13
FF	A5	80	8F	88
			EB	11
				05

```

; Entry point
; Copy 7 bits to DST byte--the high
; bit will be corrected later
; Discard SRC bits just copied
; Move next 7 bits into place
; All done if remaining SRC bits
;   are zero
; Set extensible bit in DST byte
;   and process next byte
; Exit

```

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```
0074 299      .SBTTL  NT$CVT_BN8_EXT - CONVERT BINARY TO EXTENSIBLE
0074 300
0074 301      :++
0074 302      : NT$CVT_BN8_EXT - converts an unsigned quadword value to an extensible field
0074 303      : format and stores the result in a minimal number of bytes.
0074 304
0074 305      : Note that only source bits 00-62 are used; bit 63 is ignored.
0074 306
0074 307      : Calling Sequence:
0074 308
0074 309      :     BSBW      NT$CVT_BN8_EXT
0074 310
0074 311      : Input Parameters:
0074 312
0074 313      :     R1      Binary value to convert and store (low order bits)
0074 314      :     R2      Binary value to convert and store (high order bits)
0074 315      :     R5      Address of next byte in buffer to store result
0074 316
0074 317      : Implicit Inputs:
0074 318
0074 319      :     None
0074 320
0074 321      : Output Parameters:
0074 322
0074 323      :     R1-R2    Zeroed
0074 324      :     R5      Address of last byte of result + 1
0074 325
0074 326      : Implicit Outputs:
0074 327
0074 328      :     None
0074 329
0074 330      : Completion Codes:
0074 331
0074 332      :     None
0074 333
0074 334      : Side Effects:
0074 335
0074 336      :     None
0074 337
0074 338      :--
0074 339
0074 340      NT$CVT_BN8_EXT::
0074 341      $C[RBIT #31,R2
0078 342
0078 343      10$:  MOVB      R1,(R5)+
0078 344
0078 345      BICB2     #^X7F,R1
0078 346      ASHQ      #-7,R1,R1
007F 347      BEQL      20$
0084 348
0086 349      BISB2     #^X80,-1(R5)
0086 350      BRB       10$
008B 351      20$:  RSB
008D 351
```

85 51 90
51 51 7F 8F 8A
51 51 F9 8F 79
07 13
FF A5 80 8F 88
EB 11 008B
05 008D

: Entry point
: Clear high order bit so that zero
: will always propagate on shift
: Copy 7 bits to DST byte--the high
: bit will be corrected later
: Discard SRC bits just copied
: Move next 7 bits into place
: All done if remaining SRC bits
: are zero
: Set extensible bit in DST byte
: and process next byte
: Exit

```
008E 353      .SBTTL NT$CVT_BN4_IMG - CONVERT BINARY TO IMAGE
008E 354
008E 355      :++
008E 356      : NT$CVT_BN4_IMG - converts an unsigned longword value to an image field format
008E 357      : (counted binary string) and stores the result in a minimal number of
008E 358      : bytes.
008E 359
008E 360      : Calling Sequence:
008E 361
008E 362      :     BSBW    NT$CVT_BN4_IMG
008E 363
008E 364      : Input Parameters:
008E 365
008E 366      :     R1      Binary value to convert and store
008E 367      :     R5      Address of next byte in buffer to store result
008E 368
008E 369      : Implicit Inputs:
008E 370
008E 371      :     None
008E 372
008E 373      : Output Parameters:
008E 374
008E 375      :     R1      Zeroed
008E 376      :     R2      Destroyed
008E 377      :     R5      Address of last byte of result + 1
008E 378
008E 379      : Implicit Outputs:
008E 380
008E 381      :     None
008E 382
008E 383      : Completion Codes:
008E 384
008E 385      :     None
008E 386
008E 387      : Side Effects:
008E 388
008E 389      :     None
008E 390
008E 391      :--
008E 392
008E 393      NT$CVT_BN4_IMG::
008E 394      MOVL    R5,R2
008E 395      CLRB    (R5)+
008E 396      TSTL    R1
008E 397      BEQL    20$
008E 398      10$:   MOVB    R1,(R5)+
008E 399      INCB    (R2)
008E 400      CLRB    R1
008E 401      ROTL    #-8,R1,R1
008E 402      BNEQ    10$
008E 403      20$:   RSB
008E 404
008E 405      .END
008E 406
```

52 55 D0 008E 394
85 94 0091 395
51 D5 0093 396
OE 13 0095 397
85 51 90 0097 398
62 96 009A 399
51 94 009C 400
51 51 F8 8F 9C 009E 401
F2 12 00A3 402
05 00A5 403
00A6 404
00A6 405
00A6 406

```
: Entry point
: Save address of DST count byte
: Zero DST count byte
: Test value to convert
: All done if value is zero
: Copy next byte to DST
: Increment byte counter
: Discard byte just copied
: Move next byte into place
: There is more to do if any
:   remaining bits are non-zero
: Exit
: End of module
```


NTOENCODE
Symbol table

DAP MESSAGE ENCODE ROUTINES

H 11

15-SEP-1984 23:59:22 VAX/VMS Macro V04-00
5-SEP-1984 16:20:44 [RMS.SRC]NTOENCODE.MAR;1

Page 10
(9)

\$\$PSECT_EP	= 00000000	NWASL_PROXABADR	00000110
\$\$RMSTEST	= 0000001A	NWASL_RDTXABADR	00000114
\$\$RMS_PBUGCHK	= 00000010	NWASL_SAVE_FLGS	00000128
\$\$RMS_TBUGCHK	= 00000008	NWASL_SUMXABADR	00000118
\$\$RMS_UMODE	= 00000004	NWASL_THREAD	000000FC
DAP\$B_BITCNT	00000035	NWASL_XLTATTR	00000238
DAP\$B_DECVER	00000047	NWASL_XLTBUFLG	0000022C
DAP\$B_ECONUM	00000045	NWASL_XLTCNT	00000228
DAP\$B_FILESYS	00000043	NWASL_XLTMAXIDX	00000234
DAP\$B_FLAGS	00000031	NWASL_XLTSIZ	00000230
DAP\$B_LEN256	00000034	NWASQ_ACS	00000244
DAP\$B_LENGTH	00000033	NWASQ_BIGBUF	00000170
DAP\$B_OSTYPE	00000042	NWASQ_BLD	000000F0
DAP\$B_STREAMID	00000032	NWASQ_FLG	00000000
DAP\$B_TYPE	00000030	NWASQ_INODE	0000025C
DAP\$B_USRNUM	00000046	NWASQ_IOSB	000000D8
DAP\$B_USRVER	00000048	NWASQ_LNODE	00000160
DAP\$B_VERNUM	00000044	NWASQ_LOGNAME	0000023C
DAP\$K_DAT_MSG	= 00000008	NWASQ_NCB	00000264
DAP\$M_BITCNT	= 00000008	NWASQ_RCV	000000E0
DAP\$M_LEN256	= 00000004	NWASQ_SAVE_DESC	00000120
DAP\$M_LENGTH	= 00000002	NWASQ_XLTBUF1	0000024C
DAP\$M_SEGMENT	= 00000040	NWASQ_XLTBUF2	00000254
DAP\$M_STREAMID	= 00000001	NWASQ_XMT	000000E8
DAP\$M_TMP1\$	= 00000010	NWAST_ACSBUF	0000026C
DAP\$M_TMP2\$	= 00000080	NWAST_AUXBUF	000005E0
DAP\$Q_SYSCAP	00000028	NWAST_DAP	00000000
DAP\$Q_SYSPEC	00000038	NWAST_INODEBUF	000004AC
DAP\$V_BIGBLK	= 00000014	NWAST_ITM_ATTR	00000200
DAP\$V_LEN256	= 00000002	NWAST_ITM_END	00000224
DAP\$V_LENGTH	= 00000001	NWAST_ITM_LST	00000200
DAP\$V_MSGBLK	= 00000012	NWAST_ITM_MAXIDX	00000218
DAP\$V_STREAMID	= 00000000	NWAST_ITM_STRING	0000020C
DAP\$W_BUFSIZ	00000040	NWAST_NCBBUF	0000052C
NT\$BUILD_HEAD	00000000 RG 01	NWAST_NODEBUF	00000169
NT\$BUILD_TAIL	0000002F RG 01	NWAST_RCVBUF	000001A0
NT\$CVT_BN4_EXT	0000005E RG 01	NWAST_SCAN	00000100
NT\$CVT_BN4_IMG	0000008E RG 01	NWAST_TEMP	00000120
NT\$CVT_BN8_EXT	00000074 RG 01	NWAST_XLTBUF1	000002AC
NWASB_ALLXABCNT	0000011C	NWAST_XLTBUF2	000003AC
NWASB_DAP_RAC	000000C9	NWAST_XMTBUF	000003C0
NWASB_FILESYS	000000C5	NWASV_LAST_MSG	= 00000000
NWASB_KEYXABCNT	0000011D	NWASW_BUILD	000000D2
NWASB_NETSTRSIZ	0000016F	NWASW_DAPBUFSIZ	000000CA
NWASB_NODBUFSIZ	00000168	NWASW_DIR_OFF	000000CC
NWASB_ORG	000000C6	NWASW_DISPLAY	000000D0
NWASB_OSTYPE	000000C4	NWASW_FIL_OFF	000000CE
NWASB_RFM	000000C7	NWASW_JNLXABJOP	0000011E
NWASB_RMS_RAC	000000C8		
NWASB_BLN	00000800		
NWASK_BLN	00000800		
NWASL_ALLXABADR	00000100		
NWASL_DATXABADR	00000104		
NWASL_DEV	000000C0		
NWASL_FHCXABADR	00000108		
NWASL_KEYXABADR	0000010C		
NWASL_MSG_MASK	000000D4		

NTC
Tab

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
NH\$NETWORK	000000A6 (166.)	01 (1.)	PIC USR CON REL GBL NOSHR EXE RD NOWRT NOVEC BYTE
\$AB\$\$	00000800 (2048.)	02 (2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.10	00:00:01.42
Command processing	105	00:00:00.68	00:00:06.06
Pass 1	178	00:00:04.18	00:00:14.96
Symbol table sort	0	00:00:00.31	00:00:00.83
Pass 2	79	00:00:01.15	00:00:03.74
Symbol table output	14	00:00:00.09	00:00:00.33
Psect synopsis output	2	00:00:00.02	00:00:00.34
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	409	00:00:06.54	00:00:27.94

The working set limit was 1200 pages.
18530 bytes (37 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 259 non-local and 11 local symbols.
406 source lines were read in Pass 1, producing 13 object records in Pass 2.
14 pages of virtual memory were used to define 13 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[RMS.OBJ]RMS.MLB;1	5
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	9

388 GETS were required to define 9 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:NTOENCODE/OBJ=OBJ\$:NTOENCODE MSRC\$:NTOENCODE/UPDATE=(ENH\$:NTOENCODE)+LIB\$:RMS/LIB

0316 AH-BT13A-SE
VAX/VMS V4.0

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